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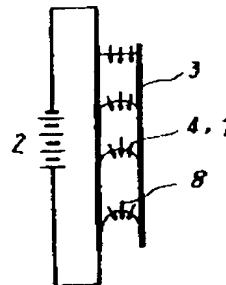
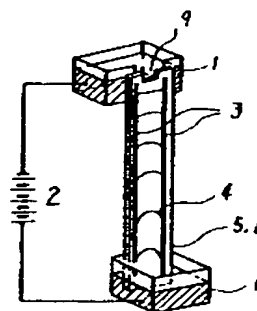
APPLICATION DATE : 16-05-84
APPLICATION NUMBER : 59096453

APPLICANT : HITACHI LTD;

INVENTOR : TOKITA JIRO;

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TITLE : ELECTROPHORESIS APPARATUS



ABSTRACT : PURPOSE: To minimize the width of migration bands by providing correctors for potential gradients for each of the migration paths in such a way that the respective migration separating bands converge toward the central part with an increase in the extent of the movement thereof.

CONSTITUTION: The titled apparatus is constituted with an acrylamide gel 5 for migration sepn. sandwiched by two sheets of electrical insulating plates 6, an electrolyte cell 1 in which both ends thereof are immersed, a high-voltage DC power source 2, two resistance wires 3 provided to each of the migration paths and good conductors 4 bridging said wires. The wires 3 are manufactured by depositing a "NESA(R)" film by evaporation on the surface of an insulator panel 6 for migration which contacts with the gel 5 and the good conductor 4 is manufactured by depositing gold, silver, copper or platinum by evaporation on said surface. If a sample contg. nucleic acid is placed on the negative electrode side of the gel and is subjected to electrophoresis, the migration band of the length corresponding to the size of a sample slot 9 is formed but the equipotential line along the conductor 4 is formed and therefore said band shrinks in the final thus forming a migration point.

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